

TOP SECRET

OUT53605

25X1

P 152235Z  
FM NPIC

1964 JUN 15 23 16Z 16 JUN 1964

AFSSO USAFE  
AFSSO PACAF

HFS 25X1

CJS 25X1

CPC

PMS

ACL

OPCEN  
YWQLAZC/AFSSO SAC  
YWQLAZC/AFSSO ACIC  
YWQLAZC/AFSSO FTD  
ZEM  
TOP SECRET

Grace 25X1

RELEASABLE FROM SSO CHANNELS. SSOS PASS

TO APPROPRIATE TCOS. CITE NPIC 2444.

SUBJECT: CAMERA INFORMATION FOR MISSION 1006-2.

A. THIS PHOTOGRAPHY INVOLVES THE USE OF EIGHT CAMERAS: TWO MAIN CAMERAS, FOUR HORIZON CAMERAS, A STELLAR CAMERA AND AN INDEX CAMERA.

B. OPERATIONAL FOCAL LENGTHS

ITEMS 1, 2, AND 3 (MAIN AND HORIZON LENSES) SEE REMARKS, NOTE 1.

(4) STELLAR CAMERA 84.054 MM

(5) INDEX CAMERA 37.970 MM

C. LENS DISTORTION (PIN CUSHION)

ITEMS 1 AND 2 (MAIN AND HORIZON LENSES) SEE REMARKS, NOTE 1.

D. DEPRESSION ANGLES OF HORIZON CAMERAS RELATIVE TO NOMINAL

25X1

25X1

Declassification Review by NGA/DoD

- 2 -

MAIN CAMERA. SEE REMARKS, NOTE 1.

E. CAMERA FILTER AND EXPOSURE DATA

SEE REMARKS, NOTE 1.

F. RESOLUTION CAPABILITIES

(1) SEE REMARKS, NOTE 1.

(2) INDEX (L/MM AWAR) 72

G. TIMING MARKS

FREQUENCY MARKS WILL APPEAR ON THE FILM AT A RATE OF 200  
CYCLES PER SECOND.

H. CALIBRATED ANGLES OF CAMERAS

(1) SEE REMARKS, NOTE 1.

(2) CALIBRATED ANGLE BETWEEN STELLAR AND INDEX CAMERAS  
89 DEG. 43.5 MIN.

I. IMAGE MOTION COMPENSATION DATA

(1) CYCLE RATE (CPS) AND GROUND ANGULAR VELOCITY (GAV IN  
RAD/SEC)

| REF. LEVEL |       |       | AMPL. LEVEL |       |       |
|------------|-------|-------|-------------|-------|-------|
| NO.        | CPS   | GAV   | NO.         | CPS   | GAV   |
| 11         | .3289 | .0297 | 1           | .1614 | .0146 |

(2) PASSES: REF. 11, AMPL. 1; 65D1 THROUGH AND INCLUDING  
128D1.

J. PROGRAM TIME DATA

| PASS | CAMERA ON TIME |      |     |     |  | PROGRAM ON TIME | PROGRAM  |
|------|----------------|------|-----|-----|--|-----------------|----------|
|      | (ZEBRA TIME)   |      |     |     |  | UP RAMP         | DURATION |
|      | DAY            | HOUR | MIN | SEC |  | (SEC)           | (SEC)    |
| 65D1 | 09             | 01   | 10  | 07  |  | 2936            | 46       |
| 68D1 | 09             | 05   | 33  | 48  |  | 2486            | 233      |

-3-

|       |    |    |    |    |      |     |
|-------|----|----|----|----|------|-----|
| 69D1  | 09 | 07 | 02 | 40 | 2395 | 86  |
| 69D2  | 09 | 07 | 06 | 27 | 2622 | 157 |
| 70D1  | 09 | 08 | 33 | 26 | 2420 | 427 |
| 71D1  | 09 | 10 | 02 | 48 | 2374 | 138 |
| 71D2  | 09 | 10 | 05 | 43 | 2549 | 77  |
| 72AE  | 09 | 11 | 14 | 03 | 1229 | 46  |
| 72D1  | 09 | 11 | 34 | 30 | 2456 | 145 |
| 73D1  | 09 | 13 | 05 | 09 | 2548 | 100 |
| 78D1  | 09 | 20 | 42 | 15 | 2794 | 83  |
| 81D1  | 10 | 01 | 16 | 22 | 2993 | 45  |
| 84D1  | 10 | 05 | 39 | 06 | 2499 | 130 |
| 84D2  | 10 | 05 | 42 | 22 | 2695 | 143 |
| 85D1  | 10 | 07 | 07 | 54 | 2410 | 116 |
| 85D2  | 10 | 07 | 11 | 41 | 2637 | 292 |
| 86D1  | 10 | 08 | 41 | 02 | 2598 | 232 |
| 87D1  | 10 | 10 | 07 | 22 | 2362 | 389 |
| 88AE  | 10 | 11 | 19 | 53 | 1291 | 46  |
| 96D1  | 10 | 23 | 59 | 36 | 3682 | 129 |
| 99D1  | 11 | 04 | 14 | 08 | 2589 | 203 |
| 100D1 | 11 | 05 | 47 | 09 | 2758 | 112 |
| 100D2 | 11 | 05 | 50 | 06 | 2935 | 157 |
| 101D1 | 11 | 07 | 13 | 09 | 2504 | 100 |
| 101D2 | 11 | 07 | 17 | 10 | 2745 | 217 |
| 102D1 | 11 | 08 | 43 | 08 | 2507 | 101 |
| 102D2 | 11 | 08 | 45 | 55 | 2673 | 76  |
| 102D3 | 11 | 08 | 47 | 48 | 2786 | 89  |
| 103AE | 11 | 09 | 54 | 02 | 1349 | 46  |

1

- 4 -

|       |    |    |    |    |      |     |
|-------|----|----|----|----|------|-----|
| 103D1 | 11 | 10 | 13 | 13 | 2500 | 192 |
| 103D2 | 11 | 10 | 17 | 00 | 2728 | 128 |
| 104D1 | 11 | 11 | 44 | 29 | 2686 | 205 |
| 110D1 | 11 | 20 | 50 | 21 | 2853 | 130 |
| 112D1 | 12 | 00 | 04 | 09 | 3784 | 85  |
| 115D1 | 12 | 04 | 17 | 37 | 2648 | 205 |
| 116D1 | 12 | 05 | 46 | 30 | 2575 | 161 |
| 116D2 | 12 | 05 | 50 | 17 | 2801 | 304 |
| 117D1 | 12 | 07 | 19 | 50 | 2768 | 306 |
| 118D1 | 12 | 08 | 43 | 48 | 2408 | 558 |
| 119AE | 12 | 09 | 57 | 20 | 1415 | 46  |
| 119D1 | 12 | 10 | 15 | 34 | 2509 | 328 |
| 120D1 | 12 | 11 | 47 | 48 | 2763 | 190 |
| 128D1 | 12 | 23 | 43 | 37 | 2397 | 203 |

DATA IS THE SAME FOR BOTH THE MASTER AND SLAVE UNITS.

#### K. TIME CORRELATION (MILLISECONDS)

| PASS | SYSTEM TIME | CLOCK TIME | DIFFERENCE  |
|------|-------------|------------|-------------|
| 63   | 79595.975   | 114851.473 |             |
| 72   | 40299.187   | 161954.676 | MINUS 0.009 |
| 79   | 79898.082   | 201553.541 | MINUS 0.030 |
| 88   | 40750.989   | 248806.447 | MINUS 0.001 |
| 95   | 80306.435   | 288361.876 | MINUS 0.017 |
| 103  | 35601.785   | 330057.212 | MINUS 0.014 |
| 110  | 75127.910   | 379583.331 | MINUS 0.006 |
| 119  | 35799.650   | 416655.079 | PLUS 0.008  |

#### L. REMARKS

NOTE 1. THIS DATA, REPORTED IN NPIC 2414 IS

-5-

THE SAME FOR BOTH 1006-1 AND 1006-2.

NOTE 2. FOR THE TIME INTERVAL (SECONDS) BETWEEN 2000 TO  
AND INCLUDING 2800, THE IMC CURVE IS A CONSTANT .0415 RAD/  
SEC WITH A CONSTANT CYCLE RATE OF 0.4589 CPS.

SCP-1

T O P S E C R E T

-END OF MESSAGE-

(ABOVE MESSAGE ALSO PASSED )

25X1

25X1